

79

# **Notice of Allowability**

Application No.

10/817,630

Examiner

Duc T. Doan

Applicant(s)

CYPHER ET AL.

Art Unit

2188

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendments filed 7/2/07.
2. ☒ The allowed claim(s) is/are 1-4, 7-9, 12-19 (renumbered by Examiner).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## **Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
 HYUNG SOUG  
 SUPPLEMENTARY EXAMINER

8/03/07

## **DETAILED ACTION**

### ***Status of Claims***

Claims 1-17 have been presented for examination in this application. In response to the last office action, claims 5-6,10-11 have been cancelled, claims 18-19 have been added. As the result, claims 1-4,7-9,12-19 are pending in this application.

The applicant's remarks and amendment to the claims have been considered with the results that follow,

Claims 1-4,7-9,12-19 are allowed.

### ***Allowable Subject Matter***

Claim 1 is allowed because the prior art of record does not teach or suggest that  
“.....wherein a home memory subsystem included in a home node of the plurality of nodes for the coherency unit is configured to store the portion of the global address identifying the translation function for the node, wherein active devices included in the home node are configured to generate a different value of the portion of the global address, wherein the different value identifies a different translation function associated with the coherency unit in the home node; and  
wherein if the home memory subsystem determines that the coherency transaction involving the coherency unit cannot be completed within the home node, the home memory subsystem is

Art Unit: 2188

configured to provide the portion of the global address identifying the translation function for the node a home interface included in the home node for conveyance to the node”

as recited in the claim, and in combination with other remaining claimed matter set forth in the claimed invention.

Claim 9 is allowed because the prior art of record does not teach or suggest that “  
.....wherein at least one bit included in the global address indicates whether the coherency unit identified by the global address is replicable in more than one of the plurality of nodes; and the active device translating a different virtual address to a different global address, wherein the at least one bit included in the different global address indicates that the different global address is not replicable in more than one of the plurality of nodes, and wherein the portion of the different global address includes additional address bits instead of identifying a translation function” as recited in the claim, and in combination with other remaining claimed matter set forth in the claimed invention.

Claim 18 is allowed because the prior art of record does not teach or suggest that “  
.....an operating system executing on the active device creating a translation lookaside buffer entry corresponding to the virtual address, wherein the translation lookaside buffer entry includes the global address, wherein the operating system selects the translation function in order to map the virtual address to the local physical address within a non-replicated range of local physical addresses of the memory subsystem” as recited in the claim, and in combination with other remaining claimed matter set forth in the claimed invention.

Art Unit: 2188

The remaining dependent claims, not specifically mentioned, are allowed for the same rationale as the independent claim(s) being based from.

### *Conclusion*

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

When responding to the office action, Applicant is advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

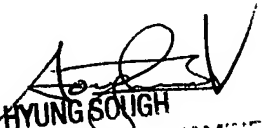
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Doan whose telephone number is 571-272-4171. The examiner can normally be reached on M-F 8:00 AM 05:00 PM.

Application/Control Number: 10/817,630

Page 5

Art Unit: 2188

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

  
HYUNG SOUGH  
SUPERVISOR  
8/03/07